



Key Features

- Excellent elongation
- Very conformable
- 160°C service temperature
- Multilayer Nylon reliability
- Cost-effective

Description

AeroFilm® VB160 is a high quality, general purpose multilayer nylon vacuum bagging film suitable for conventional vacuum bagging, resin infusion and prepreg applications (for curing in or out of autoclave).

Compared to many bagging films, VB160 offers superior flexibility and elongation which improves consolidation and pressure, especially in tight corners or over particularly complex mould shapes. This superior flexibility results in less 'bridging', reduced pin-holing and improved surface finish of laminates - especially for sensitive 'out-of-autoclave' curing processes.

VB160 has also been designed to provide improved resistance to accidental tears and puncture during handling making it a preferred choice in busy manufacturing environments.

The film is suitable for use up to a maximum temperature of 160°C. For cure temperatures up to 204°C/400°F, see our aerospace-grade AeroFilm™ VB200.

Typical Uses

- Resin infusion
- Prepreg laminating (out-of-autoclave or autoclave)
- Wet-lay vacuum bagging
- Vacuum bonding/veneering
- Safety glass lamination

VB160 is not recommended for use with phenolic resins.

Multi-layer Reliability

AeroFilm™ VB160 uses multiple layers for maximum reliability. Multilayer technology eliminates problems caused by imperfections, pin holes or weaknesses in the film by combining layer after layer into a single, ultra-reliable film.

Lay Flat Tube Format

AeroFilm™ VB160 is supplied at 1.52m and 0.6m widths in a lay-

flat tube (LFT) format meaning that off the roll it is two layers of film with either edge already sealed.

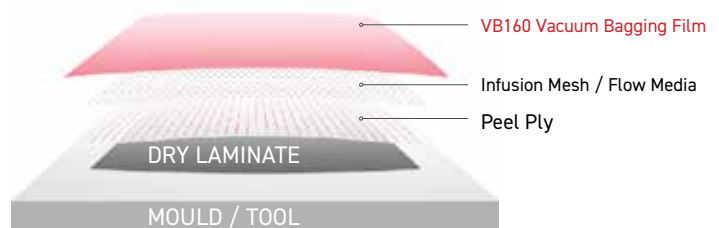
Working with film in a lay flat tube format like this means that it's often possible to make use of one or both of the existing seams, reducing the amount of bagging tape required to seal your bags and speeding-up the bagging process. It also makes it possible to slit the bag down just one side and open it up to a very wide 3m or 1.2m width - ideal for larger bagging projects.

Typical Use

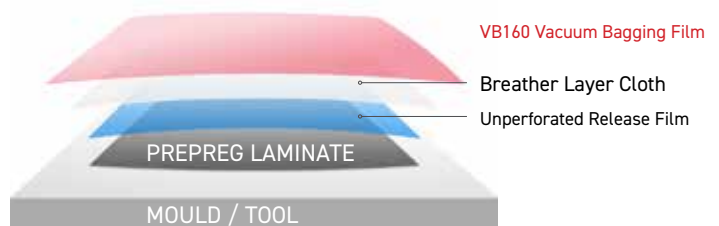
VB160 Vacuum Bagging Film is our recommended bagging film for a wide range of vacuum bagging applications including resin infusion, prepregs, wet-lay vacuum bag and vacuum bonding/pressing.

This film will provide the outermost layer for a range of different vacuum bagging processes, some typical examples are listed below.

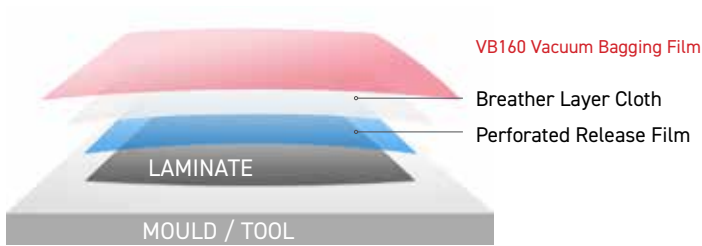
Example Stack : Resin Infusion



Example Stack : Prepreg Laminating



Example Stack : Vacuum Bagged Wet-Layup



Specification

Property	Unit	Method	Value
Material	-	-	Multilayer Nylon/ PO (PA Exterior)
Width	mm	Internal	1524 (-0 +2%)
Format	-	-	Lay Flat Tube
Nominal Thickness	µm	ISO 4593	50 ± 10%
Maximum Use Temperature	°C	Internal	160
Density	g/cm ³	Internal	1.05
Tensile Strength @ Break MD	N/mm ²	ASTM D882	65 ± 10%
Tensile Strength @ Break TD	N/mm ²	ASTM D882	60 ± 10%
Elongation @ Break MD	%	ASTM D882	360 ± 10%
Elongation @ Break TD	%	ASTM D882	370 ± 10%
Appearance	-	-	Red/Pink Translucent

MD: Machine Direction - down length of roll

TD: Transverse Direction - across width of roll

Handling & Storage

Nylon bagging films are hygroscopic and their behaviour and mechanical properties are affected by their moisture content; particularly the elasticity and softness of the film. Moisture content acts as a plasticiser - a low moisture content will result in a stiffer, less elastic film.

To preserve the performance of the film and ensure consistent behaviour, store unused film in a sealed bag and away from particularly dry conditions.

Recommended storage and use conditions are between 5°C (41°F) and 40°C (104°F) with relative humidity between 25-60%.

Disclaimer

This data is not to be used for specifications. Values listed are for typical properties and should not be considered minimum or maximum. Our technical advice, whether verbal or in writing, is given in good faith but Easy Composites Ltd gives no warranty; express or implied, and all products are sold upon condition that purchasers will make their own tests to determine the quality and suitability of the product for their particular application and circumstances.

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